Date

Monday, 12/10/2007 12:04:17 PM

User:

Kim Johnston

**Process Sheet** 

Customer Job Number

: CU-DAR001 Dart Helicopters Services

: 36227 : 10160

**Estimate Number** 

: 35606

P.O. Number This Issue

Prsht Rev.

First Issue

: NA

: 12/10/2007

S.O. No. : MA

Type

: PURCHASED PARTS

**Part Number** 

**Drawing Number** 

**Drawing Name** 

: N/A Project Number : 93.29.06 **Drawing Revision** 

Material **Due Date**  A(U: 12/17/2007

: D2137

: NO STEP LABEL

D2137 REV 93.29.06

Qty:

20 Um:

Each

Written By

Previous Run

Checked & Approved By Comment

: Est:

02.02.01

Added step 3 and Inspection level 21

SM

**Additional Product** 

Job Number:



Seq. #:

Machine Or Operation:

Description:

**PURCHASING** 

1.0

PG



Comment: PURCHASING

Issue P/0 \_ 5244

Make per Dwg 2137

(207/12/10

PACKAGING RESOURCE #1

2.0

D2137P

**DECAL- NO STEP** 

Comment: Qty.:

1.0000 Each(s)/Unit

Total:

20.0000 Each(s)

Decal - No Step

3.0

PACKAGING 1

Comment: PACKAGING RESOURCE #1

Receive & Inspect for Transit Damage

Ensure Material Release Note is attached

Comment: INSPECT WORK TO CURRENT STEP

5.0

4.0

QC5

PACKAGING RESOURCE #1



Comment: PACKAGING RESOURCE #1

Identify and Stock Location:

7/12/12 SU



## Dart Aerospace Ltd

W/O:			WC	RK ORDER CHANGE	S					
DATE STEP		PRO	OCEDURE CHAI	NGE	By Date Qty Chie			Approval Chief Eng / Prod Mgr	pproval hief Eng / Prod Mgr Approval QC Inspector	
				·						
Part No	:	PAR #:	Fault Cateç	Jory:						
NCR:	·		WORK ORDE	R NON-CONFORMAN			u	Date:		
DATE	STEP	Description of NC	Initial	Corrective Action Section Action Description	B Sign 8	Verification Approval Appro		Approval		
		Section A	Chief Eng	Chief Eng	Date	Secti	on C	Chief Eng	QC Inspector	

NOTE: Date & initial all entries

Date:

Monday, 12/10/2007 12:04:17 PM

User:

Kim Johnston

**Process Sheet** 

Customer: CU-DAR001 Dart Helicopters Services

Drawing Name: NO STEP LABEL

Job Number: 36227

Part Number: D2137

Job Number:



Seq. #:

Machine Or Operation:

Description:

QC21

FINAL INSPECTION/W/O RELEASE





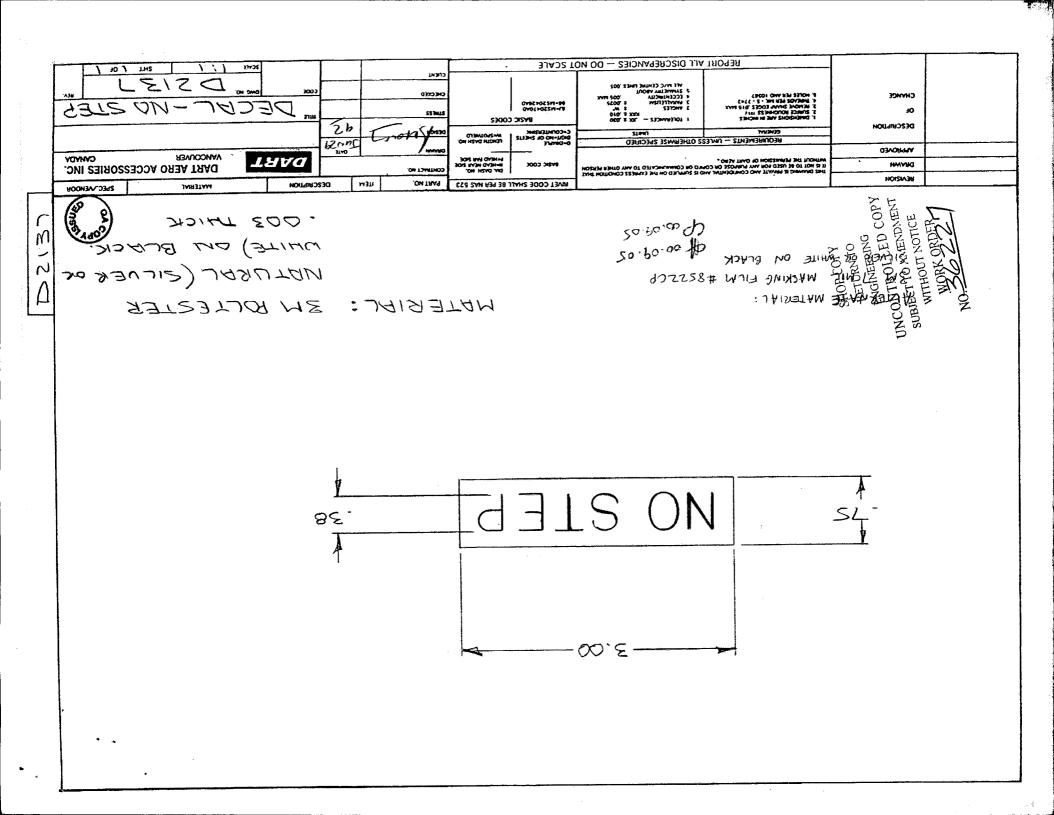
Comment: FINAL INSPECTION/W/O RELEASE

Job Completion



Dart Ae	rospace L	ıta							
W/O:			WC	RK ORDER CHANGE	S		·		
DATE	STEP	PR	OCEDURE CHAI	NGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
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Part No		PAR #:	Fault Cated	iorv:	NCR: Yes	No DOA	\ <u>.</u>	Date:	
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NCR:			WORK ORDE	ER NON-CONFORMAN	ICE (NCR	)			
DATE	STEP	Description of NC	Description of NC Correct		В	Verification		Approval	Approval
DATE	SILF	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date		Section C	Chief Eng	QC Inspector

NOTE: Date & initial all entries





Dart Aerospace Ltd 1270 Aberdeen

VENDU À:

SOLD TO:

210 MAIN W., HAWKESBURY, ONT. K6A 2H6

Tel.: 613 632-5449 Fax: 613 632-9491

www.studiolettrage.on.ca

INVOICE / FACTURE

No.:

9614

DATE:

PAGE

12/14/2007

DATI

1 of 1

Re: Order No. 4321

Dart Aerospace Ltd

LIVRÉ À:

SHIPPED TO:

Hawkesbury, Ontario

Hawkesbury, Ontario K6A 1K7

Hawk

### ONE UNIT   DESCRIPTION   GST   PST   PNT PRICE   MOUNTAINT				V(1)				
20 D2137P no step printing set up  E. GST @ 6% G. GST @ 6%; PST @ 8% GST  PST Exempt #6122-5207  10.5C  GST/TPS: R122278690  PO5244  PO5244  TOTAL: 185.5C	ITEM ARTICLE	QTY QYE	)	DESCRIPTION	GST F TPS 1	PST IVP	UNIT PRICE PRIX UNITÉ	
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#### **Product Bulletin 8522**

**3M** 

Release F, Effective January 2003 Black bar in margin indicates a change

# Scotchcal <sup>™</sup> Opaque Imaging Media 8522

#### **Description**

This media is specially formulated to dry quickly after printing. Production of outdoor weatherable and long-term indoor durable graphics is now easier than ever. Its changeable adhesive allows easy removal for up to one year.

#### **Advantages**

- Optimized for use with selected Epson Stylus Proprinters and Epson Archival inks.
- Optimized for use with selected HP DesignJet Printers and HP DesignJet Ink System UV or HP83UV Color Ink System
- For making opaque, laminated graphics that are outdoor weatherable and long-term indoor durable
- Media:
  - For opaque (reflective) graphics
  - Changeable, easy to remove from warranted substrates up to 1 year later
  - Dries quickly after printing so the overlaminate can be applied almost immediately
  - Low slippage paper liner for superior tiling
- Overlaminates:
  - Provide additional UV (ultraviolet) and physical protection for making weatherable finished graphics
  - Available in luster and matte gloss
  - Adhesive allows for heat-assisted or cold-temperature lamination

#### **Applications and Uses**

3M \*\* Scotchcal \*\* Changeable Opaque Imaging Media 8522 is intended only for ink jet printing and for use with the listed Compatible Products and Equipment and the following applications. Any other application is NOT warranted by 3M or covered by the worldwide 3M \*\* MCS \*\* Warranty unless 3M gives its prior written approval for the application.

- First surface images (the image is on top of the film) for opaque posters and signs, including:
  - Graphics for vans, personal vehicles, trucks and buses
  - Novelty posters
  - Retail and point-of-purchase displays
  - Information graphics such as maps and directories
  - Entertainment promotions in museums, zoos, parks, theatres, sports venues
  - Education and presentation graphics

- Legal and courtroom exhibits
- For flat or simple curved surfaces, with or without rivers, used in vertical (± 10°) applications

#### Limitations of End Uses

The following uses and applications are specifically NOT warranted.

- Fleet applications in areas that use salt for winter road maintenance
- Application to non-warranted substrates, including wall-board
- Applications subjected to gasofine vapors or spills
- Application to corrugated or highly irregular surfaces or sharply raised areas
- Graphics applied to stainless steel, including stainless steel vehicles
- On flat surfaces with rivets, tenting of 4 to 10 mm around rivets may be expected; rivets may be cut around to eliminate tenting.

Note: Standard ink jet technology is water based. Waterbased chemistry is susceptible to the extremes of heat and humidity. This is a factor in most product constructions on the market. Read the Fabrication. Shelf Life and Storage sections in this bulletin. Staying in the middle of these ranges always provides optimum performance.

## Compatible Products and Equipment

#### Thermal Ink Jet Printing Systems

- Epson Stylus Pro 9500. Stylus Pro 10000 printer
  - Epson Archival Inks
- Epson Stylus Pro 10600 printer
  - Epson Archival Inks
- HP DesignJet Printers 2000 and 3000 series
  - HP DesignJet Ink System UV (pigment-based ink)
- HP DesignJet Printers 5000 series
  - HP83UV Color Ink System

#### Overlaminates (required)

- 3M \* Luster Overlaminate 8519 (semi-gloss)
- 3M Matte Overlaminate 8520

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Note: For the full product names of the 3M products listed on this page, please see page 1.

#### **Warranted Substrates**

Media 8522 is warranted for use on the following rigid substrates.

Some substrates may "out-gas", resulting in tiny bubbles throughout the surface of the graphic. For maximum performance, be sure the substrate you select is properly cleaned and prepared as recommended by the manufacturer. See Instruction Bulletin 5.1 for additional information.

- Alodine (anodized aluminum)
- Automotive panels (automotive painted steel)
- Fruehauf (painted aluminum)
- FRP (fiberglass reinforced plywood)
- Glass
- Imron<sup>®</sup> (polyurethane-painted metal panel)
- Acrylic
- · Sintra " board

## Test and Approve Non-warranted Substrates Before Use

Media 8522 is not warranted for any substrate other than those listed above. If you want to use it for other substrates, 3M recommends that you test and approve the media for both adhesion and removal characteristics.

#### Characteristics

Characteristic	Description
Media	7 mil. white, opaque graphic film
Liner	Low-slippage, lay flat paper
Adhesive	Changeable, pressure sensitive
Thickness (media and adhesive)	7.5 to 8 mil (nominal)
Application substrates	See Warranted Substrates, above
Application surfaces	Flat or simple curved surfaces, with or without rivets, used in vertical (± 10°) applications (no corrugations)
Application temperature range	28° to 110°F (-2° to 43°C) (air and surface)
Roll sizes	36" x 45 feet (914 mm x 13.5 m) 54" x 45 feet (1372 mm x 13.5 m)

## How to Become a 3M Ink Jet Registered Fabricator

Only 3M Thermal Ink Jet Registered Fabricators are eligible to offer 3M MCS warranted graphics. In order to become certified, a fabricator must complete the requirements as specified in the 3M Ink Jet Graphics Registered Fabricator Reference Manual located on the 3M website at www. scotchprint.com

#### **Effective Performance Life**

To obtain the warranty given below, the graphics must be made according to 3M's recommendations which are detailed in the Warranty and Limited Remedies on page 3. Also see the section. Removability.

#### **Warranted Durability**

Media 8522 with	Epson Pr	inters	HP Printers		
Overlaminate 8519 or 8520	Outdoor	Indoor	Outdoor	Indoor	
Applied to Warranted Substrates	2 years	5 years	· 3 years	5 years	

#### Removability

Imaging media 8522 is removable from warranted substrates for 1 year without the aid of chemical strippers or accessories. Refer to Instruction Bulletin 4.23 for additional information.

#### **Fabrication**

Graphics must be made according to 3M's recommendations which are detailed in the Warranty and Limited Remedies on page 3.

See Instruction Bulletin 4.23 for detailed fabrication, printing and mounting information.

#### **Graphic Construction Options**

#### **Opaque (Reflective) Graphics**

Opaque graphics made with imaging media 8522 require an overlaminate and an opaque substrate.

Viewer/Light Source	
	Overlaminate 8519, 8520 Adhesive on bottom
	Imaging Media 8522 Image on top; adhesive on bottom
	Opaque Substrate

Note: For the full product names of the 3M products listed on this page, please see page 1.

#### Shelf Life and Storage

- 3M \* Scotchcal \* Changeable Opaque Imaging Media 8522 has a shelf life of one year.
- Storage conditions (new and partially used rolls). For optimum performance, use the middle of these ranges:
  - Original packaging, including plastic wrap
  - Relative humidity of 20% to 80%
  - Temperature of 33° to 104°F (0° to 40°C)
  - Away from direct sunlight
- Do not stack unprotected rolls or lay sharp or heavy objects on them.

#### **Health and Safety**

#### Caution

When handling any chemical products, read the manufacturers' container labels and the Material Safety Data Sheets (MSDS) for important health, safety and environmental information.

To obtain MSDS sheets for 3M products:

- By fax, call 1-800-364-0768 in the US and Canada or 1-650-556-8417 for all other locations
- Electronically, visit us at http://www.3M.com/msds.
- · By mail, or in case of an emergency, call 1-800-364-3577 or 1-651-737-6501

When using any equipment, always follow the manufacturers' instructions for safe operation.

### **Warranty and Limited Remedies**

#### 3M MCS Warranty for Graphics Produced on HP DesignJet Printers and Epson Stylus Pro Printers

The following is made in lieu of all other express or implied warranties, including any implied warranty of merchantability or fitness for a particular purpose: We warrant graphics produced by a 3M Ink Jet Registered Fabricator made with imaging media 8522, printed on an approved HP thermal ink jet printer according to HP's recommendations or Epson Stylus Pro printer according to Epson's recommendations. overlaminated with 8519 or 8520, and applied to a Warranted Substrate according to 3M's recommendations. These

3M Canada

P.O. Box 5757

London, Ontario

Canada N6A 4T1

1-800-265-1840

Fax 519-452-6245

graphics are covered against failure caused by ultraviolet light, temperature extremes, pollution, and other elements.

If a graphic fails to perform in accordance with 3M product specifications within this time frame, 3M will replace the materials at no charge. These remedies are exclusive. In no case shall 3M be liable for any direct, indirect, or consequential damages, including any labor charges.

#### 3M Related Literature

Listed below is related 3M technical literature that may be of interest. You may view and print these Bulletins from our Web site at www.scotchprint.com, or order them via our Faxon-Demand (FOD) system. Call one of these phone numbers to order the desired bulletins, and specify the FOD document number provided in the chart.

United States or Canada: 1-800-364-0768 International: 1-651-732-6506

Subject	Bulletin No.	FOD No.		
Product Bulletins				
3M ** Scotchcal * Overlaminate 8519 and 8520	8519/8520	4524 -		
Instruction Bulletins				
Making thermal ink jet graphics	4.23	6523		
Application, substrate selection, preparation and substrate-specific application techniques	5.1	7001		
Warranties				
Worldwide 3M * MCS * Warranty Packet (includes all Commercial Graphics MCS Warranties)				
Worldwide 3M ** MCS *** Warranty Overv		9504		

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#### **Bulletin Change Summary**

The Epson Stylus Pro Printers 9500, 10000 10600, and Epson Archival Inks have been added to this bulletin. Additional changes resulting from this addition are marked with black bars in the margin.

#### **3M**

**Commercial Graphics Division** 3M Center, Building 220-6W-06 PO Box 33220

St. Paul, MN 55133-3220 USA General Info. 1-800-374-6772 Technical Info. 1-800-328-3908

Fax 1-651-736-4233 Eax on-Demand 1-800-364-0768 US/Canada or 1-651-732-6506 International

Isrxson-Domand document: 4506 www.scotchprint.com

3M México, S.A. de C.V. Av. Santa Fe No. 55 Col. Santa Fe. Del. Alvaro Obregón México, D.F. 01210

52-55-52-70-04-00 Fax 52-55-52-70-22-77 3M Puerto Rico, Inc. Puerto Rico Industrial Park P.O. Box 100 Carolina, PR 00986-0100 787-620-3000

Pax 787-750-3035

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Product Bulletin 8522 - 3